

IN THE CLAIMS:

Claims 1-28 (Cancelled)

Claim 29 (Currently amended) In combination, an adjustable arc spray nozzle connectable with a source of pressurized fluid for providing a spray pattern in an arc radially disposed about the nozzle, the nozzle including a top member and a base member connected to the top member, a discharge orifice being formed in a discharge plane between the top member and the base member, wherein the improvement comprises ~~in the adjustable arc spray nozzle comprising:~~

an internal helix member for controlling the arc of the spray pattern of the nozzle, the internal helix member being inserted into the top member, and the internal helix member having means for preventing the internal helix member from rotating with respect to the top member and the base member, the internal helix member having a helically configured surface extending about the circumference of the internal helix member, whereby as the internal helix member is moved downwardly the arc of the spray pattern of the nozzle increases, and as the internal helix member is moved upwardly the arc of the spray pattern of the nozzle decreases.

Claim 30 (Currently amended) The combination ~~adjustable arc spray nozzle~~ of Claim 29, wherein the internal helix member has a plurality of incremental steps extending about the circumference of the internal helix member, whereby as the internal helix member is moved downwardly each incremental step a corresponding slot between

the top member and the base member is opened, and as the internal helix member is moved upwardly each incremental step a corresponding slot between the top member and the base member is closed, to control the arc of the spray pattern of the nozzle.

Claim 31 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 30 ~~Claim 29~~, further comprising a rotatable external lower collar for controlling the flow of the nozzle, the rotatable external lower collar being threadedly connected to a threaded outer portion of the base member.

Claim 32 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 31, wherein the external lower collar can be rotated moving in an upward direction that will cover the discharge of the discharge orifice or slot thereby controlling ~~the amount~~ an amount water to be discharged.

Claim 33 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 31, wherein an upper surface of the base member includes a detent which engages a helical surface on a lower portion of the external lower collar, the helical surface on the lower portion of the external lower collar including a plurality of grooves permitting periodic location of the detent of the base member, thereby effecting a ratchet ~~type~~ action and holding the external lower collar in position after being set.

Claim 34 (Currently amended) In combination, an adjustable arc spray nozzle connectable with a source of pressurized fluid for providing a spray pattern in an arc radially disposed about the nozzle, the nozzle including a top member and a base member connected to the top member, a discharge orifice being formed in a discharge plane between the top member and the base member, and an internal helix member inserted into the top member and having an internal threaded channel, wherein the improvement comprises in the adjustable arc spray nozzle comprising:

an internal flow adjustment screw for controlling the flow of the nozzle, the internal flow adjustment screw extending axially through the internal threaded channel of the internal helix member between the top member and base member, whereby rotation of the internal flow adjustment screw controls the flow of water through the discharge orifice of the nozzle proportional to the arc of the spray pattern.

Claim 35 (Currently amended) The combination adjustable arc spray nozzle of Claim 34, wherein the internal flow adjustment screw has an upper end with a flange received in a corresponding slot in the top member, and the internal flow adjustment screw has a bottom end captured in the base member, such that the internal flow adjustment screw controls the size of the discharge orifice when the top member and the base member are assembled.

Claim 36 (Currently amended) The combination adjustable arc spray nozzle of Claim 34, further comprising a rotatable external upper collar for controlling the radius

of the spray pattern, the external upper collar being threadedly connected to a threaded outer portion of the top member.

Claim 37 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 36, wherein the external upper collar has a bottom side with a splash plate portion on the bottom side that is slightly above the discharge plane.

Claim 38 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 37, wherein by movement of the external upper collar in a downward direction the splash plate interferes with the discharge plane, causing a breakup action of the discharge of water from the discharge orifice.

Claim 39 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 36, wherein the radius of the pattern can be reduced by downward movement of the external upper collar, and the radius of the pattern can be increased by upward movement of the external upper collar.

Claim 40 (Currently amended) The combination ~~adjustable are spray nozzle~~ of Claim 36, wherein a lower portion of the top member includes a detent which engages a helical surface on an upper lip portion of the external upper collar, the helical surface on the upper lip portion of the external upper collar having a plurality of grooves

permitting periodic location of the detent of the top member, thereby effecting a ratchet type action and holding the external upper collar in position after being set.